

Robert A. van Weezendonk

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Industrial Designer | Mechanical Design Engineer

- Multi-disciplinary designer and engineer who creates products and processes that improve others' lives
- Creates sustainable solutions across well-regulated industries such as aerospace and automotive
- Customer-focused for all users of a product, from conceptualization to service
- Expert in engineering processes and design methodologies that result in cost and weight reductions
- Army Veteran; consummate team player and relationship builder across diverse teams and functions
- Excellent communicator as team manager and individual contributor; speaks English, Dutch and German

Skills	Technology	Expertise
Parametric 3D Modeling	Pro-Engineer Wildfire Creo	Design for Ease of Use/DFM/DFMEA
2D Technical Drawing	Solidworks	Design for Six Sigma
Technical Documentation	Inventor	LEAN Manufacturing
Hand Rendering	AutoCAD	AS9100/ISO 9001 Internal Auditor
Prototype Builds at Any Scale	Microsoft Office	Familiar with ITAR Regulations
Ergonomics, Human Factors/Safety	Adobe Creative Suite	Boeing/Airbus Requirements
GD&T/ ASME Y14.5	Windchill	
3D Printing		

Work History

Industrial Designer | Mechanical Design Engineer: *RAV Creations* *Globally | 2002-present*
Contract/Freelance Design, engineer and build per customer requests, hand sketch to 3d cad and utilizing a multiple selection of materials.

- *Silverback Marine, Campbell Nissan, Burke Gibson, Woodlands Pizza, Gryphon Engineering, Drummates*
- Designed and engineered a 30' barge for local small boat builder
- Assisted with design and engineering of mini cargo van-camper conversions
- Built customized standing desk platforms that improved the health and productivity of office workers
- Created 3D models modified to customer specifications to create airport terminal furniture
- Remodeled a restaurant using 80% repurposed/recycled materials; doubling its capacity without interrupting business
- With sketching and 3D Models, reverse engineered a private residence as well as packaging and small components

Mechanical Engineer: *Microsoft* *Redmond, WA 2019*
• Create conceptual mobility devices for Mechanical Devices (Surface HUB2) that aid in protecting and maneuvering the device from point of delivery to point of installation
• Develop in coordination with Prototyping, Industrial Design, User Experience, Mechanical, and Packaging to achieve installation and lifting frames for the Surface HUB2 that meet the cost, weight and practicality targets

Sr. Engineering Program Manager: *Evluma* *Renton, WA 2018-2019*
• Facilitated communications between Evluma engineering with offsite manufacturing and offshore supplier base
• Managed energy efficient LED lighting product lines
• Oversaw FAI inspections and drawing updates as required. RMA process clean up.
• Refined the standards for documentation (Detailed drawings of manufactured parts (Mechanical and Electrical))

Industrial Designer/Mechanical Design Engineer: *HAECO Cabin Solutions R&D* *Kent, WA 2016-2017*
• Designed and engineered Airbus lavatories utilizing various methods: Injection-Molding, Thermoforming, Sheet-metal fabrication to make parts fit in various configurations. Various enclosures and mechanism designs
• Collaborated with electrical department for sub-component wiring targeting 50% cost and 50% weight reductions
• Generated Technical manual and various requirements such as validation & verification, to comply with customer requirements (Boeing and Airbus) and industry standards (AS9100)

Senior Quality Engineer: *MTorres America/ Pacifica Engineering, Inc.* *Bothell, WA 2016*
• Developed Acceptance Test Plans and Technical Manuals for the Boeing 777X Wing Stringer Bond Assembly Cell
• Supported the quality department with internal audits for the up-coming AS9100 Re-Certification

Customer Support Resident Applications Engineer: DANA Corporation *Seattle, WA 2010-2014*

- Effectively turned customer requests into new products by facilitating communication between business entities
- Improved efficiencies with constant communication about process and part modifications
- Brands Supported: *Kenworth Trucks, Spicer Axles, Drivelines*

Design Engineer: PACCAR - Kenworth Truck Company *Kirkland, WA 2008-2009*

- Reduced cost by 50% while utilizing 100% recyclable materials for original designs of new truck interiors
- Built Full-Scale Mock-up to evaluate space planning
- Earned Two-Patents pending for Interior step functions to upper bunk

Product Design Engineer: Synsor Corporation (Retail Solutions) *Everett, WA 2008*

- Reduced cost, weight and installation time to increase profit margin for existing retailers' products
- Increased safety and efficiency and ease of access in the new design of airline terminal kiosks
- Brands Supported: *Jamba Juice, Alaska Airlines, Safeway, Starbucks*

Head of Engineering: BUCHER Aerospace Corporation *Everett, WA 2005-2008*

- Led engineering group to acquire and optimize AS9100 Certification; improved Just in Time & Lean Manufacturing.
- Reduced waste and redundancies employing DFM techniques for aircraft interiors
- Represented Bucher Aerospace with securing 10M contract assisting Recaro on-site in Germany with Boeing 787 Business Class seat/Console, advised and recommended cost-effective design and production methods_focused on interface points, electrical enclosures, water drip trays, mechanism designs.

Design Engineer/Industrial Designer: HUTCHINSON Industries *Trenton, NJ 1998-2005*

- Secured major automotive customer by swiftly spearheading the ISO-9001 quality assurance certification
- Designed/engineered wheel designs including the Presidential Limo, Stryker wheeled tank and Winnebago motorhome
- Developed and facilitated product marketing brochures, advertisements and trade show booths designs and layouts
- Initiated the creation (writing and illustrating) technical manuals for numerous automotive applications
- Developed machines to support and service the multiple component wheels with run flat devices

Transportation Corps: United States Army *Fort Dix, NJ 1994-2002*

- Recognized for exceptional service in the US Army Reserves; selected as dedicated battalion commander's driver
- Assigned as Equal Opportunity Representative for the unit
- Commercially licensed Class B CDL, trained on all wheeled military vehicles
- 462nd Transportation Battalion: logistics and Transportation of goods and services to support US Army missions

Certifications

Familiarized with ITAR regulations	Geometric Dimensioning and Tolerancing
Design for Six Sigma	AS9100 Certification
FAA/Boeing galley design/test requirements	ISO 9001 Certification/Internal Auditor
Community Emergency Response Team (C.E.R.T.) Trained	

Awards & Distinctions

Patents pending: Upper Bunk access, PACCAR
Automotive Dashboard Design, Aisin-Seiki
Annual Presidents Award, Hutchinson - Paris, France
High-end lighting fixtures: Interaction with lamp, Artemide
International Contemporary Furniture Fair (ICFF), Editor's Award
Art Show Hoek Kunst, Landscape Painting- De Heen, The Netherlands

Education

Bachelor of Science – Industrial Design, The University of the Arts, Philadelphia, PA
Internship- V-Design Grafische Vormgevers, Breda, The Netherlands
Associates – Fine Arts, Mercer County College, Trenton, NJ